GOVERNMENT OF ANDHRA PRADESH
ABSTRACT

Animal Husbandry Department – Andhra Pradesh Livestock Development Agency - Guidelines for Implementation of the "Mission Punganuru Research Project" at Andhra Pradesh Centre for Advanced Research on Livestock Limited, Pulivendula – Orders - Issued.

ANIMAL HUSBANDRY DAIRY DEVELOPMENT AND FISHERIES (AH-II) DEPARTMENT

G.O.RT.No. 136 Dated: 31-05-2021.
Read the following:

1) G.O.Ms.No.32 of AHDD&F(AH.II) Dept., Dated: 02.09.2020
2) G.O.Rt.No.71 of AHDD&F(AH.II) Dept., Dated: 25.03.2021
3) From the CEO, APLDA, Lr Roc.No.4777/T2/2020, dated:21.05.2021 received through DAH e-office file (Comp.No.1402145)

***

ORDER:

In the reference 1st read above, Government have issued administrative sanction orders to the Chief Executive Officer, Andhra Pradesh Centre for Advanced Research on Livestock Limited Pulivendula for establishment of Pungganur Cattle Production using IVF technology under “Mission Punganur Research Project” with an outlay of Rs. 69.36 crores over a period of (5) years, at Andhra Pradesh Centre for Advanced Research on Livestock Limited, Pulivendula, YSR District under Sri Venkateswara Veterinary University, Tirupati.

2. In the reference 2nd read above, Government have issued Administrative Sanction for an amount of Rs.29,30,48,000/- (Rupees Twenty nine crore thirty lakh forty eight thousand) as additional funds in relaxation of treasury control and quarterly regulation orders pending provision of funds by obtaining supplementary grants at an appropriate time during the C.F.Y 2020-21 towards **non-recurring** expenditure relating to "Mission Punganuru Research Project" at Andhra Pradesh Centre for Advanced Research on Livestock Limited, Pulivendula.

3. In the reference 3rd read above, the Chief Executive Officer, Andhra Pradesh Livestock Development Agency has informed that Government of A.P has taken up a Novel Project on conservation of native Breed as per the vision of Hon’ble C.M. The project is aimed to improve the quality and number of Punganur animals and revive them to their original status known as **“Poor Man’s Cow”** with rich nutritive value milk and also as part of Organic farming. MISSION PUNGANUR thus denotes the commitment of the Government in revival of the famous cattle breed of Andhra Pradesh. The main objectives of this project are:-

- Conservation and ropagation of the Punganur cattle.
- Rapid multiplication of the superior females through Embryo transfer technology .

4. The Chief Executive Officer, Andhra Pradesh Livestock Development Agency has furnished guidelines to define the role clarity of the field staff in the “Mission Punganur Research Project” and for better coordination of the staff in making the project as successful one.

5. Government after careful examination of the proposal hereby issue comprehensive guidelines to define the role clarity of the field staff in the “Mission Punganur Research Project” and for better coordination of the staff in making the project as successful one. The Comprehensive guidelines are given in the Annexure appended to this order.

(P.T.O)

6. The Chief Executive Officer, Andhra Pradesh Livestock Development Agency, Guntur, shall take further necessary action, accordingly.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

Dr. POONAM MALAKONDAIAH
SPECIAL CHIEF SECRETARY TO GOVERNMENT (FAC)

To
The Chief Executive Officer, Andhra Pradesh Livestock Development Agency,
Guntur.
Copy to:
The Director, Animal Husbandry Department, Labbipet, A.P., Vijayawada.
The Chief Executive Officer, Andhra Pradesh Centre for Advanced Research Livestock Limited, Pulivendula, YSR District
The Registrar, Sri Venkateswara Veterinary University, Tirupati.
P.S. to Minister (Animal Husbandry Dairy Development &Fisheries).
P.S. to Special Chief Secretary to Government, Animal Husbandry Dairy Development &Fisheries Department.
SF/Sc.

//FORWARDED::BY::ORDER//

SECTION OFFICER

ANNEXURE

(Annexure to G.O.Rt.No.136, AH (II) Dept., Dated:31-05-2021)

Guidelines for Implementation of the "Mission Punganuru Research Project":-

A). Role of the Andhra Pradesh Livestock Development Agency:

- Collection and maintaining the Data Base (Punganur farmers).
- Organizing one state level workshop on Punganur cattle rearing with elite farmers selected from the database.
- Formation of Farmers Interest Groups (FIGs) at District level and Farmers Breeders Organizations at State level (the task of formation of FIGs by EO, DLDA in coordination with the Joint Director (AH) of the concerned District).
- Conducting training programmes to Veterinarians and Farmers at District level on formation of FIG and FPO.
- Providing required logistics for maintenance of FIGs at District level.
- Identification of the service providers (AVH AD's / NGO's to monitor) to Punganur rearing farmers to allot Punganur semen.
- Giving wide publicity regarding State Government objectives and schemes to develop Punganur breed through Electronic media and Social media (Telegram groups, Websites, Pasuvignanabadi), Print and Electronic Media.
- Sharing of calves born between Farmers and Organization (FIG/FPO).
- Supply of inputs for artificial insemination (AI).
- Providing incentives to the milk recorders, AI / ET Technicians and Farmers (Mission Punganur Project Funds).
- Arranging periodical Zoom meetings with progressive farmers and service providers - Coordination Meetings with the cooperation of the S.V. Veterinary University.
- Training of veterinarians on Embryo Transfer Technology (ETT) – District wise for selected vets through SVVU – Mission Punganur funds.
- Maintenance of a call centre with a responsible officer to solve the problems at farmer level.
- Organization of the Gynecological camps in coordination with Animal Husbandry Department.
- Identification of the suitable bulls at field level for semen collection in coordination with Animal Husbandry Department and Sri Venkateswara Veterinary University.

B). Role of Sri Venkateswara Veterinary University:

- Standardization of the MOET and IVF-ETT in Punganur animals.
- Production of the HGM Embryos from Punganur breed to transfer in the farmers surrogate cows through trained field ET technicians under the supervision or technical control of APLDA.
- Training to the selected field Veterinarians in Embryo Transfer Technology (ETT).
- Participation and Identification for selection supply of High pedigreed Bulls to the certified Semen Stations of the APLDA for production of semen.

C). Role of Andhra Pradesh Centre for Advanced Research on Livestock Limited:

- Andhra Pradesh Centre for Advanced Research on Livestock Limited will take the responsibility of the budget as sanctioned by the Government of Andhra Pradesh under this project as per the existing sanction orders and redistribution of the same to those institutions which are involved in this project.
- Monitoring of the progress of the ET lab at APCARL, Pulivendula.
- Review the progress of the project with all line departments and providing suitable logistic support wherever necessary.

(P.T.O)

D). <u>Role of Animal Husbandry Department</u>:

- The Animal Husbandry Department will coordinate all the activities of the Mission Punganur Project with the Institutions / Departments, who are involved in the Mission Punganur Project.
- Deputation of the required Veterinarians to LRS, Lam to undergo training especially on MOET (Multiple Ovulation and Embryo transfer Technology) and IVF – ETT (*In-vitro* Fertilization and Embryo Transfer Technology) for the Mission Punganur project.
- Arranging incentives to the farmers and to the field AI/ET technicians with due approval of the Government (Mission Punganur project funds).
- Assign one officer in the cadre of Assistant Director as nodal officer for coordination with APLDA/SVVU and APCARL.
- Conduct of calf rallies/milk yield competitions in the Punganur animals and monitoring of the milk recording activities.

E). <u>Role of Joint Director and Divisional Deputy Director of Animal Husbandry Department:</u>

- Proper guidance to the AVH A.Ds / Vets / AI Technicians in making the Mission Punganur project success.
- Regular review on the progress till sufficient numbers of Punganur Calves are born and grown.
- Proper monitoring and strict vigilance in utilization of the Punganur Frozen semen doses as per breeding policy and to avoid the misutilization of the semen against the breeding policy.

F). <u>Role of Executive Officer, District Livestock Development Agency</u>:

- The Executive Officer, DLDA shall collect the data from Assistant Director, AVH for number of animals in the jurisdiction of each AI Technician.
- The Executive Officer, DLDA shall supply required number of Punganur Frozen Semen doses @ 3 straws / animal to the places as indicated by the VAS / AD. (E.O shall procure 5/10/25 straws plastic goblets for this purpose).
- The Executive Officer, DLDA shall verify the usage of supplied Frozen Semen doses by AI Technician in coordination with field officers.
- The Executive Officer, DLDA shall participate in the special fertility camps for Punganur animals as per request of AVH AD / Divisional DD.
- The Executive Officer, DLDA shall organize special calf rallies/Milk yield competitions for the Punganur calves at Sub-Division level or cluster of VH's to encourage farmers for rearing more numbers and to promote the breed.

G).<u>Role of Area Veterinary Hospital Assistant Director</u>:

The role of AD is very crucial in monitoring, guiding and involving in Mission Punganur for achieving the objectives and to keep the breed alive for successive generations.

- **Conducting regular meetings** of the identified Punganur farmers in their respective jurisdiction along with the AI Technicians of the local village and field Veterinarians / In-charge of that villages in whose jurisdiction identified Punganur animals are stationed. They shall inform the farmers to suggest the name of the AI Technicians whose services will be available to them on call immediately for attending health care and breeding services. The names of such persons with the contact number shall be updated in the data base of the Mission Punganur Project in addition to the information available with them (As furnished by APLDA) similarly they shall also suggest the place where the semen straws of Punganur shall be kept under proper custody for use on the identified Punganur animals @ 3 straws per animal.

(P.T.O)

- He/She shall also guide the field Vets and local AI Technician to see that all the breedable population are either conceived or in milk. And that all the calved animals shall be inseminated within 3 months after calving to achieve the objectives of Calf a year in Mission Punganur to multiply the numbers within 2 years.
- The Assistant Director, In-charge of AVH will also take the responsibility of giving guidance to bestow his/her personal attention to attend the health emergencies or breeding problems upon request of the Punganur animal owner.

H). <u>Role of Veterinary Assistant Surgeon</u> :

- The main objective of the Mission Punganur is doubling the numbers of female population in the next 2 years by achieving the objective of calf a year programme in the eligible breedable population of Punganur animals. Therefore the field veterinarians are requested to bestow their personal attention and guide the local AI Technician to see that the animals are inseminated for conception within 3 months of calving and all dry and empty animals are given special attention for calf a year programme in his / her respective jurisdiction. Required number of semen doses for the identified animals will be kept with the identified AI Technician or with the local field Veterinarian for use upon request by the Punganur animal owner.
- Proper guidance to the local Para staff / AI Technician for milk recording of the elite animals whose milk yield is more than 3 liters per day (Including calf suckling). Such data shall be recorded in specific record sheet for identifcation of bull calves born to such elite mothers to procure by APLDA / Mission Punganur Project.
- Proper monitoring to avoid misutilization of the Punganur Frozen semen doses.

I). <u>Role of AI Technician: (Para Vet / AHA / GM) :-</u>

 <u>Usage of the frozen semen AI straws</u>

Upon receiving the information for AI from the identified farmer, he will specifically utilize the frozen semen straws issued for AI on the identified animals and will follow up till the animal is conceived.

The Semen straws allotted to the AI Technician for use on Punganur animals or Punganur type animals shall not be used in ND animals or Cross breed animals or Ongole animals since it is against the breeding policy.

<u>Calf a year</u>

The AI Technician has to follow the post calving heat cycles after calving and see that the animal is to be inseminated within 3 months by regularly following the health aspects of the animals and by taking suitable guidance from the local Veterinarian in getting the animal conceived so that calf a year is achieved for the Punganur or Punganur type animals as one of the objectives of the Mission Punganur Project.

<u>Follow up activities</u>

The AI Technician (Para Vet / AHA / GM) is responsible for maintaining health cards and follow up of the health care activities, breeding services and guidance to the farmers in rearing the Punganur calves in consultation with the concerned Veterinarian at RBK level.

<u>Recording of the Milk yield</u>

The AI Technician is also responsible to record milk yield of the Punganur animals and wherever the milk yield is above 3 liters per day such animals shall be categorized as quality animals or elite animals and their milk yield shall be recorded once in 15 days in the prescribed milk record sheet which is enclosed to this guidelines and this activity must be taken as a continued process.

(P.T.O)

- The call center for Mission Punganur is being monitored at APLDA head quarters in Guntur and any issues related to the project shall be informed to the call center at No. 9392916003 between 10:00 AM to 5:00 PM on working days. The call center number shall also be informed to the Punganur animal owners covered under Mission Punganur Project for better coordination of the staff. The call center will also have Telegram group and they can send messages / Photos to the call center regarding activities taken up by them or issues that are to be informed to the higher authorities and the success stories of Mission Punganur Project.
- The Group also will include the subject experts from the SV Veterinary University for Technical guidance in breeding services and animal management including nutrition aspects. The whole objective of the project is to see that the available Punganur animals get better services for up-gradation and multiplication of the Punganur animals.
- Embryo Transfer Technology with Embryos produced from the project in APCARL at Pulivendula Lab by the Sri Venkateswara Veterinary University Officers or any other agency will be distributed for producing elite Punganur animals to propagate the breed and to save the breed from extinction.
- Since the Punganur is a native breed of Andhra Pradesh, farmers can be encouraged to rear good number of animals with lesser cost to produce organic milk with A2 protein and can earn additional family income through dung and urine with value addition in group activity or individually as per feasibility.

Dr. POONAM MALAKONDAIAH
SPECIAL CHIEF SECRETARY TO GOVERNMENT (FAC)